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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/070,764	03/12/2002	John Andrew Chaddock	1581.0900000/RWE/MTT	2729
26111	7590 10/04/2004	EXAMINER		
STERNE, KESSLER, GOLDSTEIN & FOX PLLC			DEVI, SARVAMANGALA J N	
	YORK AVENUE, N.W. TON, DC 20005		ART UNIT	PAPER NUMBER
,,,,,,,,,,,	, 20 2000		1645	
			DATE MAILED: 10/04/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/070,764	CHADDOCK ET AL.				
Office Action Summary	Examiner	Art Unit				
	S. Devi, Ph.D.	1645				
The MAILING DATE of this communica Period for Reply	tion appears on the cover she	et with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) da - If NO period for reply is specified above, the maximum statute - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, meation. ays, a reply within the statutory minimum period will apply and will expire SIX (6) by statute, cause the application to become	ay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this communication.				
Status						
1) Responsive to communication(s) filed of	nn					
i me	∑ This action is non-final.					
7	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice						
Disposition of Claims						
4)⊠ Claim(s) <u>22-40</u> js/are pending in the ap	plication.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 22-40 are subject to restriction	and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the E	xaminer.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the						
11)☐ The oath or declaration is objected to by	the Examiner. Note the attac	ched Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119	·					
12) Acknowledgment is made of a claim for	foreign priority under 35 LLS	C 5 110(a) (d) ar (6				
a) ☐ All b) ☐ Some * c) ☐ None of:	loreign priority under 33 0.3.	C. 9 119(a)-(u) or (i).	,			
	uments have been received					
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International		cen received in this Mational Stage				
* See the attached detailed Office action fo		not received.				
	• • • •					
Attachment(s)						
1) Notice of References Cited (PTO-892)		ew Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-S 3) Information Disclosure Statement(s) (PTO-1449 or PTO		No(s)/Mail Date of Informal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	ffice Action Summary	Part of Paper No./Mail Date 092004				

Serial No. 10/070,764

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Lack of Unity of Invention(s)

1) Claims 1-21 have been canceled.

New claims 22-40 have been added.

Claims 22-40 are pending and are under prosecution.

- 2) The instant inventions lack unity under PCT Rule 13.1 and 13.2:
 - I. Claims 22-30 and 37-40, drawn to a method of reducing toxicity of a clostridial toxin derivative preparation by contacting with a ligand; and a method of removing a clostridial toxin from a preparation containing the toxin and a derivative of the toxin using a first and a second ligand, classified in class 530, subclass 413
 - II. Claims 31 and 32, drawn to an affinity chromatography column comprising a ligand that selectively binds to toxin, but not to the toxin derivative, classified in class 436, subclass 535
 - III. Claims 33, drawn to a clostridial toxin derivative preparation comprising 1-100 ppm clostridial toxin per toxin derivative, classified in class 424, subclass 832
 - IV. Claims 34-36, drawn to a composition comprising a clostridial toxin derivative, a pharmaceutically acceptable carrier and a ligand that selectively binds to the toxin, classified in class 514, subclass 2
- 3) Groups I-IV are drawn to multiple inventions that lack unity of inventions. The special technical feature of the first claimed method is a method of reducing toxicity of a clostridial toxin derivative preparation by contacting with a ligand. The special technical feature of inventions II, III and IV are an affinity chromatography column comprising a ligand that selectively binds to toxin, but not to the toxin derivative; a clostridial toxin derivative preparation comprising 1-100 ppm clostridial toxin per toxin derivative; and a composition comprising a clostridial toxin derivative, a pharmaceutically acceptable carrier and a ligand that selectively binds to the toxin respectively. However, these special technical features do not define over the prior art, since the prior art already taught the method, the column and the preparation. For instance, Gimenez *et al.* (*J. Protein Chem.* 12: 351-363, 1993) taught a method of contacting a type A clostridial neurotoxin contained in a buffer and digested with pepsin (i.e., a clostridial toxin derivative preparation) with cationic DEAE-Sephadex or Mono Q in a column wherein the 42K fragments (i.e., toxin derivatives) did not bind to

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DEAE-Sephadex or Mono Q, but the 147 kD toxin did bind (see sections 3.3 and 2.5; Figure 3; and paragraph bridging pages 358 and 359). Gimenez *et al.* taught the chromatographically purified clostridial neurotoxin fragments (i.e., derivatives) that were dialyzed, ammonium sulfate-precipitated, and further dialyzed to obtain purified fragments (see section 3.5). The chromatographic elution results depicted in Figure 5D shows that the toxin fragments were free of the 147 kD toxin. Therefore, inventions I, II, II and IV do not share significant reagents or compositions, and/or methods steps.

- 4) Papers related to this application may be submitted to Group 1600, AU 1645 by facsimile transmission. Papers should be transmitted via the PTO Fax Center, which receives transmissions 24 hours a day and 7 days a week. The transmission of such papers by facsimile must conform with the notice published in the Official Gazette, 1096 OG 30, November 15, 1989. The RightFax number for submission of amendments, responses or papers is (703) 872-9306.
- Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAG or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.Mov. Should you have questions on access to the Private PAA system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).
- Any inquiry concerning this communication or earlier communications from the Examiner should be directed to S. Devi, Ph.D., whose telephone number is (571) 272-0854. A message may be left on the Examiner's voice mail system. The Examiner can normally be reached on Monday to Friday from 7.15 a.m. to 4.15 p.m. except one day each bi-week, which would be disclosed on the Examiner's voice mail system.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Lynette Smith, can be reached on (571) 272-0864.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1600.

September, 2004

S. DEVI, PH.D.
PRIMARY EXAMINER